Notebook, N-89-03-01

This notebook covers the period March 1889-February 1891. It was used by an unidentified experimenter in the test room for notes on tests of experimental lamps and squirted filaments. Included are notes on "Edisons new process of making squirted carbons" and "Edison's experiments on clamps." The pages are unnumbered. Approximately 90 pages have been used.

Edisons new process of making squirted carbons Mar-1-1889

Edison Order No 1 Mar-1-1889
Lamps made 18
Carbons reel 44

Edison Order No 2 Mar-1-1889
Lamps made
Carbons reel 23

Edison order No 3 Mar-4-1889
Lamps made 14
Carbons reel 23

Edison order No 4 Mar-4-1889
Lamps made 18
Carbons reel 29

Edison order No 5 Mar-4-1889
Lamps made 18
Carbons reel 31

Edison order No 6 Mar - 4 - 1889
Lamps made 14
Carbons recd 22

Edison order No 7 Mar - 4 - 1889
Lamps made 12
Carbons recd 18

Edison order No 8 Mar - 7 - 1889
Lamps made 15
Carbons recd 18

Edison order No 9 Mar - 7 - 1889
Lamps made 7
Carbons recd 14 short

Edison order No 10 Mar - 7 - 1889
Lamps made 12
Carbons recd 14 short

Edison order No 11 Mar - 7 - 1889
Lamps made 15
Carbons recd 20

Edison order No 12 Mar - 8 - 1889
Lamps made 10
Carbons recd 18 short

Edison order No 13 Mar - 8 - 1889
Lamps made 10
Carbons recd 24 spotted

Edison order No 14 Mar - 9 - 1889
Lamps made 11
Carbons recd 19

Edison order No 15 Mar - 9 - 1889
Lamps made 12
Carbons recd 28

Edison order No 16 Mar - 9 - '89
Lamps made 11
Carbons reel

Edison order No 16 Mar - 21 - '89
Lamps made up in series

Edison order No 17. Mar 11 - '89
Carbons reel 9. N. G. Little Falls no
carbons, not made up.

Edison order No 18 Mar - 11 - '89
Carbons reel 20. These carbons were
same as No 17, and were not made up)

Edison order No 19 Mar 11 / 89
Carbons reel 25. short, not made up

Edison order No 20 Mar - 11 - 89
Lamps made 13
carbons reel 19

Edison order No 20. Mar 21 - 89
Lamps made up in series 2.

Edison order No 21 Mar - 16 - 89
Lamps made 11
Carbons reel 21 recarbonized

Edison order No 21 Mar 13 - '89
Carbons reel 21, Reg. not made up
carbons split lengthwise

Edison order 22. Mar - 13 / 89
Carbons reel 11 not made up

Edison order No 23 Mar - 16 - '89
Lamps made 9
carbons reel 14 recarbonized

Edison order No 23. Mar - 13 / 89
Reg. not made up.
Carbons reel 29, split in shank
lengthways

Edison order No 24 Mar-18-89
~~Lamps~~ rec'd 18. N.G. little balls on carbons not made up

Edison order No 25 Mar-18/89
Carbons rec'd 18 not made up, was same as No 24

Edison order No 26 Mar-18-/89
Carbons rec'd 11 N.G. got little balls on carbons. not made up

Edison order No 27 Mar-18/89
Carbons rec'd 9 N.G. not made up, short, and same as No 26

Edison order No 28. Mar 18-/89
Carbons rec'd 16. N.G. not made up little balls on carbons

Edison order No 29. Mar 18-/89
Carbons rec'd 19.
Not made up.

Edison order No 30 Mar 18/89
Carbons rec'd 14 N.G. not made up little balls on carbons

Edison order No 31 Mar-18-89
Carbons rec'd 15. N.G. not made up little balls on carbons

Edison order No 31 Mar-19-89
Carbons rec'd 14. not made up

Edison order No 32. Mar 19-89
Carbons rec'd 9. not made up

Edison order No 33. Mar 19-89
Lamps made 4
Carbons rec'd 8

Edison order No 34 Mar. 22-89
Carbons rec'd 7. not made up

Edison order No 35 Mar 22, 89
carbons rec'd 6. 2 good one full
length not made up

Edison order No 36 Mar 22, 89
Lamps made 5
carbons rec'd 15. short

Edison order No 37 Mar-22-89
carbons rec'd 9. not made up

Edison order No 38 Mar 22, 89
Lamps made 4
Carbons rec'd 8 short

Edison order No 20 a Mar 29, 89
Lamps made 8
Carbons rec'd 10

Edison new No 1 Apr-12-89
carbons all broken short

Edison new No 2 Apr-22-89
Lamps made 1
carbons rec'd 12. short

Edison new No 3 Apr-12-89
Lamps made 3
Bal of carbons broken

Edison new No 4 Apr-12-89
Lamps made 12
carbons rec'd 09

Edison new No 5 Apr 12-89
Lamps made 10
Carbons rec'd 25

Edison new No 6 Apr 12-89
Lamps made 4
carbons rec'd 12. Broken

Edison new No 7 Apr. 12-89
Lamps made 18-
Carbons mld 54

Edison new No 8 Apr. 12-89
Lamps made 18-
Carbons mld 40

Edison new No 9

Edison new No 10

Edison new No 11

Edison new No 12 Apr. 12-89
Lamps made 18-
carbons mld 88. 6 good 6 ab Broken

Edison new No 13 Apr. 12-89
Lamps made 18-
carbons mld 85-

Edison New No 14 Apr. 12-89
Lamps made 18-
Carbons mld 23.

Edison New No 15- Apr. 12-89
Lamps made 18-
Carbons mld 85-

Edison new No 16

Edison new No 17

Edison New No 18

Edison New No 19

Edison new No 20

Edison new No 21

Edison new No 22

Edison New No 23.

Edison New No 24 Apr-12-89
Lamps made 15
Carbons recd 86

Edison New No 25

Edison New No 26 Apr-12-89
Lamps made 15
Carbons recd 96

Edison New. No 27

Edison New No 28 Apr-12-89
Lamps made 40
Carbons rec. 117

Edison 5-X Special Coal for Carbons
Lamps Made 7
Carbons recd 8. 1 Broken

Edison Order New Sept. 3/89.
Recd No 1 and No 2 order from M.M. Fox
No 1. A. Reid 20 carbons, Lamps made 16
No 2 B. Recd 23 carbons, Lamps made 16

Order-No-1-XX May 6-89
Lamps made 15
Carbons recd 44

Order No 2 XX. May 6-89
Lamps made 15
Carbons recd 53

Order No 3 XX May 6-89
Lamps made 15
Carbons recd 41

Sept 10/89
Edison Order New No 3. C
Lamps made 15
Carbons recd 93.
Bal of carbons had little bulb on them

Edison Order New No 4. 6 Sept. 19/89
Lamps made 15
Cartons rcd 15 Bal had little falls on

Edison Order New No 5 6 Sept 19-89
Lamps made 15
Cartons rcd 26

No 1 = XXX Apr = 15 = 90
Lamps made 6
Cartons rcd 20

No 2 = XXX Apr 15 = 90
Lamps made 6
Cartons rcd 24

No 3 = XXX Apr = 15 - 90
Lamps made 6
Cartons rcd 22

No 4 = XXX Apr. 15 - 90
Lamps made 6
Cartons rcd 28

No 5 = XXX Apr 15 - 90
Lamps made 6
Cartons rcd 23

E 1 = XXX Apr 15 = 90
Lamps made 6
Cartons rcd 21

E 2 = XXX Apr 15 - 90
Lamps made 6
Cartons rcd 24

E 3 = XXX Apr 15 - 90
Lamps made 6
Cartons rcd 23

No 6 = XXX Apr. 28, '90
Lamps made 6
Carbons rec'd 20

No 7 = XXX
Lamps made 6 Apr. 28, '90
Carbons rec'd 30

No 8 = XXX Apr. 28, '90
Lamps made 6
Carbons rec'd 27

No 9 = XXX Apr. 28-90
Lamps made 6
Carbons rec'd 28

No 10 = XXX Apr. 28-90
Lamps made 6
Carbons rec'd 25

No 11 = XXX Apr. 28-90
Lamps made 5
Carbons rec'd 24

No 12 = XXX Apr. 28-90
Lamps made 5
Carbons rec'd 22

No 13 = XXX Apr. 28-90
Lamps made 5
Carbons rec'd 28

No 14 = XXX Apr. 28-90
Lamps made 5
Carbons rec'd 28

No 15 = XXX Apr. 28-90
Lamps made 5
Carbons rec'd 28

No 16 = XXX Apr 28 - 90
Lamps made 5
Carbons rec'd 20

No 17 = XXX May 1 - 90
Lamps made 5
Carbons rec'd 18

No 18 = XXX May 1 - 90
Lamps made 5
Carbons rec'd 17
Carbons lighted up unevenly

No 19 = XXX May 1 - 90
Lamps made 5
Carbons rec'd 23

No 20 = XXX May 1 - 90
Lamps made 5
Carbons rec'd 19

No 21 = XXX May 1 - 90
Lamps made 5
Carbons rec'd 23

No 22 = XXX May 1 - 90
Lamps made 5
Carbons rec'd 22

No 23 = XXX May 8 - 90
Lamps made 5
Carbons rec'd 18
Carbons uneven

No 24 = XXX May 8 - 90
Lamps made 5
Carbons rec'd 18

No 25 = XXX May 20 - 90
Lamps made 5
Carbons rec'd 8

No 26 = xxx May 20 - 90
Lamps made 5
Carbons used 14

No 27 = xxx May 20 - 90
Lamps made 5
Carbons used 11

No 28 = xxx May 20 - 90
Lamps made 5
Carbons used 16

No 29 = xxx
Lamps made 5 May 20 - 90
Carbons used 17

No 30 = xxx May 20 - 90
Lamps made 5
Carbons used 12

No 31 = xxx May 23 - 90
Lamps made 5
Carbons used 11
Lamps all broke mercury stopped running in pumps

No 32 = xxx May 23 = 90
Lamps made 5
Carbons used 14, 1 arc

No 33 = xxx May 23 = 90
Lamps made 5
Carbons used 13

No 34 = xxx May 23. - 90
Lamps made 5
carbons used 14.

No 35 = xxx May 23/90
Lamps made 5
Carbons used 13
2 Broken, 4 carbons spoiled

No 36 = xxx May 23/90
Lamps made 5-
Carbons recd 14
1 Broken Spotted

No 37 = xxx May 31-90
Lamps made 5-
Carbons recd 12
1 Broken Spotted

No 38 = xxx May 31-90
Lamps made 5-
Carbons recd 14 1 Spotted

No 39 = xxx May 31-90
Lamps made 5-
Carbons recd 13

No 40 = xxx May 31-90
Lamps made 5-
Carbons rec'd 13
1 Lamp broken by accident

No 41 = xxx June 5-90
Lamps made 5-
Carbons recd 9

No 42 = xxx June 5-90
Lamps made 5-
Carbons recd 10. 1 Lamp arc

No 43 = xxx June 12-90
Lamps made 5-
Carbons recd 13- 1 arc

No 44 = xxx June 12/90
Lamps made 5-
Carbons recd 14

No 45 = xxx June 12-90
Lamps made 5-
Carbons recd 12
Carbons interm 1 arc on pump

No 46 = XXX
Lamps made 5-
Carbons rec'd 15-
June 12-90

No 47 = XXX
Lamps made 12
Carbons rec'd 23
June 14-90

No 48 = XXX
Lamps made 12
Carbons rec'd 25-
June 14-90

No 49 = XXX
Lamps made 12
Carbons rec'd 15-
1 Lamp Broken
June 14-90

No 50 = XXX
Lamps made 5-
Carbons rec'd 10
June 14-90

No 51 = XXX
Lamps made 5-
Carbons rec'd 14
2 Broken and the whole order was spoiled or ruined
June 14-90

No 52 = XXX
Lamps made 10
Carbons rec'd 14
1 Spoiled near clamps
June 26/90

No 53 = XXX
Lamps made 10
Carbons rec'd 10
June 26-90

No 54 = XXX
Lamps made 10
Carbons rec'd 15-
1 Lamp Spoiled on Lamp. Broken on Lamp
Bad spots on carbons near clamps
June 26/90

No 55 = XXX June 30 90
Lamps made 10
Carbons rec'd 21
1 Lamp spotted on tops

No 56 = XXX June 30 90
Lamps made 10
Carbons rec'd 19
1 Lamp spotted on side of carbon
near clamp

No 57 = XXX July 17 - 90
Lamps made 10
Carbons rec'd 16
2 Carbons broken

No 58 = XXX July 17 = 90
Lamps made 10
Carbons rec'd 16

No 59 = XXX July 17 - 90
Lamps made 10
Carbons rec'd 19

No 60 = XXX July 26 - 90
Lamps made 5
Carbons rec'd 15
1 Broken on lamps all the rest good

No 61 = XXX Jul 26 - 90
Lamps made 5
Carbons rec'd 15

No 62 = XXX July 26 - 90
Lamps made 5
Carbons rec'd 15 1 Spotted

No 63 = XXX Jul 26 - 9
Lamps made 5
Carbons rec'd 16

No 64 = XXX Aug - 6 - 90
Lamps made 5
Carbons rec'd 14
2 carbons unseen

No 65 = XXX Aug - 5 - 90
Lamps made 5
Carbons recd 14
1 carbon uneven

No 66 = XXX Aug 5 - 90
Lamps made 5
Carbons recd 15
2 carbons spotted and 2 uneven

No 67 = XXX Aug - 5 - 90
Lamps made 5
Carbons recd 12
1 carbon uneven

No 68 = XXX Aug - 5 - 90
Lamps made 5
Carbons recd 15
2 carbons uneven and 1 spotted

No 69 = XXX Aug - 5 - 90
Lamps made 5
Carbons recd 13. 1 carbon broken

No 70 = XXX Aug - 5 - 90
Lamps made 5
Carbons recd 11
2 carbons very uneven and spotted

No 71 = XXX Aug - 13 - 90
Lamps made 5
Carbons recd 8
1 carbon spotted

No 72 = XXX Aug - 13 - 90
Lamps made 5
Carbons recd 10
1 carbon spotted

No 73 = XXX Aug - 13 - 90
Lamps made 5
Carbons recd 10

No 74 = XXX Aug - 13 - 90
Lamps made 5
Carbons recd 13, carbons not good, rough on ends of bamboo & broken in cutting off
2 spotted 1 uneven

No 75 = XXX Aug - 13 - 90
Lamps made 8
Carbons rec'd 6
very poor carbons. black not shiny
1 Broken

No 76 = XXX Aug = 13 - 90
Lamps made 4
Carbons rec'd 4
Carbons very black by looking at them through glass but shine when looking at them with naked Eye
4 carbons uneven

No 77 = XXX Aug - 13 - 90
Lamps made 8
Carbons rec'd 10
2 carbons uneven

No 78 - XXX Aug - 13 - 90
Lamps made 8
Carbons rec'd 9
Carbons very black. small parcels sticking to them and 1 very uneven

No 79 = XXX Aug - 14 - 90
Lamps made 8
Carbons rec'd 11

No 80 = XXX Aug - 14 - 90
Lamps made 8
Carbons rec'd 13

No 81 = XXX Aug - 14 - 90
Lamps made 7
Carbons rec'd 4
1 Lamp made full length 2 carbons were short. carbons had small parcels on them & Broken in cleaning them off. 1 broken in exhausting and 2 spotted and uneven

No 82 = XXX Aug - 14 - 90
Lamps made 8
Carbons rec'd 8
8 carbons very uneven

No 83 = XXX Aug - 14 - 90
Lamps made 5-
Carbons recd 12

No 84 = XXX Aug - 14 - 90
Lamps made 5-
Carbons recd 12
1 carbon very uneven

No 85 = XXX Aug - 14 - 90
Lamps made 5-
Carbons recd 6
1 ~~carbon~~ spotted and 1 very uneven

No 86 = XXX Aug - - 90
Lamps made 5-
Carbons recd 11
2 spotted

No = 87 = XXX Aug - - 90
Lamps made 5-
Carbons recd 12
1 bad

No 88 = XXX Aug - - 90
Lamps made 5-
Carbons recd 12

No 89 = XXX Aug - 30 - 91
Lamps made 5-
Carbons recd 11
2 spotted

No 90 = XXX Aug - 30 - 90
Lamps made 3
Carbons recd 5-
2 broken, carbons very bad. burnt spots thru on

No 91 = XXX Aug - 30 - 90
Lamps made 5-
Carbons recd 10

No 92 = XXX Aug - 30 - 90
Lamps made 5-
Carbons recd 9
Carbons looked very ~~porous~~ and bad and 2 spotted

No 93 = xxx Aug-30-90
Lamps made 3
Carbons recd 3
Carbons stuck together. could get
but 3 out of them. 2 very narrow

No 94 = xxx Aug-30-90
Lamps made 5
Carbons recd 10
2 very narrow

No 95 = xxx Aug-30-90
Lamps made 5
Carbons recd 13

No 96 = xxx Aug-30-90
Lamps made 5
Carbons recd 10
Carbons looked very bad under glass
looked cracked and porous.
1 broken and 2 spoiled

No 97 = xxx Aug-30-90
Lamps made 5
Carbons recd 15

No 98 = xxx Aug-30-90
Lamps made 5
Carbons recd 11

No 99 = xxx Aug-30-90
Lamps made 5
Carbons recd 9

No 100 = xxx Aug-30-90
Lamps made 5
Carbons recd 11

No 101 = xxx Aug-30-90
Lamps made 5
Carbons recd 12

No 102 = XXX Aug - 30 - 90
Lamps made 5
Carbons recd 10

No 103 = XXX Aug - 30 - 90
Lamps made 5
Carbons recd 11

No 104 = XXX Aug - 30 - 90
Lamps made 5
Carbons recd 12

No 105 = XXX Aug - 30 - 90
Lamps made 5
Carbons recd 10

No 106 = XXX Aug - 30 - 90
Lamps made 3
Carbons recd 3

No 107 = XXX Aug - 30 - 90
Lamps made 5
Carbons recd 10

No 108 = XXX Sept - 4 - 90
Lamps made 3
Carbons recd 4
1 Broken and 1 spotted

No 109 = XXX Sept - 4 - 90
Lamps made 5
Carbons recd 12
1 Spotted

No 110 = XXX Sept - 4 - 90
Lamps made 5
Carbons recd 8
1 Spotted

No 111 = XXX Sept - 4 - 90
Lamps made 5
Carbons recd 12
1 spotted

No 112 = XXX Sept - 4 - 90
Lamps made 5
Carbons recd 10

No 113 = XXX Sept - 6 - 90
Lamps made 5
Carbons recd 10

No 114 = XXX Sept - 6 - 90
Lamps made 5
Carbons recd 13
1 spoiled

No 115 = XXX Sept - 6 - 90
Lamps made 5
Carbons recd 10

No 116 = XXX Sept - 6 - 90
Lamps made 5
Carbons recd 9

No 117 = XXX Sept - 6 - 90
Lamps made 5
Carbons recd 12

No 118 = XXX Sept - 6 - 90
Lamps made 5
Carbons recd 9
Small carbs shrink to carbons 2 of them broken in trying to clean them
1 spoiled

No 119 = XXX Sept - 15 - 90
Lamps made 5
Carbons recd 8
1 Broken 5 uneven

No 120 = XXX Sept - 15 - 90
Lamps made 5
Carbons recd 9

No 121 = XXX Sept - 18 - 90
Lamps made 5
Carbons recd 11 1 Broken

No 122 = XXX Sept-18-90
Lamps made 5
Carbons recd 12 — 2 Spotted

No 123 = XXX Sept-19-90
Lamps made 5
Carbons recd 10
carbons broked rubbed on side. 4 Spotted 1 are

No 124 = XXX Sept-19-91
Lamps made 5
Carbons recd 12

No 125 = XXX Sept-26-90
Lamps made 5
Carbons recd 11 — 1 Spotted

No 126 = XXX Sept-26-91
Lamps made 5
Carbons recd 9 — 1 Broken

No 127 = XXX Sept-26-90
Lamps made 5
Carbons recd 10

No 128 = XXX Sept-26-90
Lamps made 5
Carbons recd 9
1 Spotted and 1 mixum

No 129 = XXX Sept-26-90
Lamps made 5
Carbons recd 12

No 130 = XXX Sept-26-90
Lamps made 5
Carbons recd 7

No 131 = XXX Sept-26-90
Lamps made 5
Carbons recd 10

No-132 - xxx Sept-29-90
Lamps made 8-
Carbons rcd 10 — 2 minutes

No 133 = xxx Sept-29-90
Lamps made 8-
Carbons rcd 9

No 134 = xxx Sept-29-91
Lamps made 8-
Carbons rcd 12

No-135 - xxx Sept-29-90
Lamps made 8-
Carbons rcd 10

No-136 = xxx Sept-29-90
Lamps made 8-
Carbons rcd 10

No 137 = xxx Sept-30-90
Lamps made 8-
Carbons rcd 10 — 1 minute

No 138 = xxx Sept-30-90
Lamps made 8-
Carbons rcd 10

No 139 = xxx Sept-30-90
Lamps made 8-
Carbons rcd 8

No 140 = xxx Oct-6-90
Lamps made 8-
Carbons rcd 8 — 1 spotted

No 141 = xxx Oct-6-90
Lamps made 8-
Carbons rcd 11

No 142 = XXX Oct-6-90
Lamps made 5-
Carbons réd 11

No 143 = XXX Oct-6-90
Lamps made 5-
Carbons réd 12

No 144 = XXX Oct-6-90
Lamps made 5-
Carbons réd 8

No 145 = XXX Oct-6-90
Lamps made 5-
Carbons réd 7
8 Spotted

No 146 = XXX Oct-7-90
Lamps made 5-
Carbons réd 10

No-147 = XXX Oct-7-90
Lamps made 5-
Carbons réd 10

No-148 = XXX Oct-7-90
Lamps made 5-
Carbons réd 10

No 149 = XXX Oct-7-90
Lamps made 5-
Carbons réd 10

No 150 = XXX Oct-7-90
Lamps made 5-
Carbons réd 9

No 151 = XXX Oct-7-90
Lamps made 5-
Carbons réd 12

No 152 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 12
2 spotted and 1 uneven

No 153 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 8 — 1 Spotted

No 154 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 10 — 1 uneven

No 155 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 12
1 carbon Broken & 1 Spotted

No 156 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 11
1 Spotted and 1 uneven

No 157 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 12 — 1 Spotted

No 158 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 12 1 Spotted

No 159 = XXX Oct-9-90
Lamps made 5
Carbons rec'd 5 1 Spotted

No 160 = XXX Oct 25 — 90
Lamps made 4
Carbons rec'd 5 — 1 Broken

No 161 = XXX Oct-25-90
Lamps made 5
Carbons rec'd 12

No 162 = xxx Oct - 28 - 90
Lamps made 5
Carbons rec'd 11

No 163 = xxx Oct - 28 - 90
Lamps made 5
Carbons rec'd 9

No 164 = xxx Oct - 28 - 90
Lamps made 5
Carbons rec'd 11

No 165 = xxx. Oct - 28 - 90
Lamps made 5
Carbons rec'd 7

No 166 = xxx Nov - 3 - 90
Lamps made 5
Carbons rec'd 8
all spotted and worn

No 167 = xxx Nov - 3 - 90
Lamps made 5
Carbons rec'd 8

No 168 = xxx Nov - 11 - 90
Lamps made 5
Carbons rec'd 13 — 1 spotted

No 169 - xxx Nov - 11 - 90
Lamps made 5
Carbons rec'd 10
Carbons all burnt on pump when exhausting at 110 volts. they burnt over against the bulb if not kept a magnet under them all the while

No 170 = xxx Nov - 11 - 90
Lamps made 5
Carbons rec'd 10

No 171 – XXX
Lamps made 5 – Nov 11-90
Carbons recd 11 – 1 unburn

No 172 – XXX Nov – 20 – 90
Lamps made 5
Carbons recd 12 – 1 Broken

No 173 = XXX Nov – 20 – 90
Lamps made 5
Carbons recd 12 – 1 Broken by accident

No 174 = XXX Nov – 20 – 90
Lamps made 5
Carbons recd 12 – 1 Broken

No 175 = XXX Dec – 1 – 90
Lamps made 5
Carbons recd 12

176 = XXX Dec – 1 – 90
Lamps made 5
Carbons recd 11 – 1 Broken by accident

177 = XXX Dec – 1 – 90
Lamps made 5
Carbons recd 11 – 1 Spotted

No 178 = XXX Dec – 10 – 90
Lamps made 5
Carbons recd 11

No 179 = XXX Dec – 10 – 90
Lamps made 5
Carbons recd 7.
1 Broken by handling with tweezers
1 Spotted

No 180 = XXX Dec – 10 – 90
Lamps made 5
Carbons recd 10

No 181 = XXX Dec-18-90
Lamps made 5
Carbons recd 8

No 182 = XXX Dec-18-90
Lamps made 5
Carbons recd 11 - 1 burned

No 183 = XXX Dec-20-90
Lamps made 5
Carbons recd 10

No 184 = XXX Dec-20-90
Lamps made 5
Carbons recd 15

No 185 = XXX Jan-3-91
Lamps made 5
Carbons recd 10
1 Spotted

No 186 = XXX Jan 3 = 1891
Lamps made 5
Carbons recd 19 - All spotted in start we low current, but sum up after running. 1 Broken by accident

No 187 = XXX Jan-3-91
Lamps made 5
Carbons recd 20 - 5 burned same as No 186 - 1 Broken by accident

No 188 = XXX Jan-14-91
Lamps made 4
Carbons recd 5 - 1 split on top, all broke on pump when first plug was put in

No 189 = XXX Jan 14-91
Lamps made 5
Carbons recd 15
1 Platinum wire broke

No 190 = XXX Jan-14-91
Lamps made 3
Carbons rec'd 7 - 4 bal is short now
1 clamp melted

No 191 - XXX Jan-14-91
Lamps made 5
Carbons rec'd 13 - 1 arc

No 192 = XXX Jan-14-91
Lamps made 5
Carbons rec'd 13 - 2 carbons broken
by accident

No 193 = XXX Jan-14-91
Lamps made 5
Carbons rec'd 7 - OK

No 194 = XXX Jan 14-91
Lamps made 5
Carbons rec'd 13 - OK

No 195 = XXX Jan-14-91
Lamps made 5
Carbons rec'd 10 -
1 carbon broken by cutting off
Bottom of Lamps - carbons all
uneven when first lighted but
evened up after running on
high current

No 196 = XXX Jan-14-91
Lamps made 5
Carbons rec'd 15 - 1 uneven

No 197 = XXX Jan-14-91
Lamps made 5
Carbons rec'd 15. OK

No 198 = XXX Jan-14-91
Lamps made 5
Carbons rec'd 13 — OK

No 199 = XXX Jan-23-91
Lamps made 5
Carbons rejd 13

No 200 = XXX Jan-23-91
Lamps made 5
Carbons rejd 17

No 201 = XXX Jan-23-91
Lamps made 5
Carbons rejd 7

No 202 = XXX Jan-23-91
Lamps made 5
Carbons rejd 22

No 203 = XXX Jan-23-91
Lamps made 5
Carbons rejd 15

No 204 = XXX Jan-23-1891
Lamps made 5
Carbons rejd 11

No 205 = XXX Jan-23-91
Lamps made 5
Carbons rejd 14

No 206 = XXX Jan-23-91
Lamps made 5
Carbons rejd 14

No 207 = XXX Jan-27-91
Lamps made 5
Carbons rejd 15

No 208 = XXX
Lamps made 5
Carbons rejd 14

No 209 = XXX Jan-27-91
Lamps made 5-
Carbons recd 15-

No 210 = XXX Jan-31-91
Lamps made 5-
Carbons recd 14

No 211 = XXX Jan-31-91
Lamps made 5-
Carbons recd 13

No 212 = XXX Jan-31-91
Lamps made 5-
Carbons recd 13

No 213 = XXX Feb-4-91
Lamps made 5-
Carbons recd 11

No 214 = XXX Feb-4-91
Lamps made 5-
carbons recd 10

No 215 = XXX Feb-4-91
Lamps made 5-
carbons recd 6

No 216 = XXX Feb-4-91
Lamps made 5-
Carbons recd 10

No 217 = XXX Feb-4-91
Lamps made 5-
Carbons recd 5

No 218 = XXX Feb-6-91
Lamps made
Carbons recd 10
not made up.

No 219 = xxx Feb-6-91
Carbon rod 15-
Not made up

No 220 = xxx Feb-6-91
Carbon rod 17
Not made up

No 221 = xxx Feb-6-91
Carbon rod 15-
Not made up

The foregoing xxx were ordered from Mr. Brown

Edison Experiments on lamps

Lamps made 6

•• 5-20-90
Lamps made 3
Made up of Iron Pyrites mixed with lamp material. half & half

••• May-20-90
Lamps made 3
Cyanite of silver mixed with lamp material. 1 of cyanite of silver 2 of lamp material

No. 2 ••• May-20-90
Lamps made 1
Lamps made with camphor ice small tube put in phosphorus cup

No 4 ... May-26-90
Lamps made 2
Lamps made with Coal Tar and
Lamp black for clamp material

No 5 ... May-26-90
Lamps made. not cut to test mm
Lamps made 1/2 Formade and 1/2
clamp material

No 6 ... May-26-90
Lamps made 2
Lamps made 1/2 Benzamide and 1/2
clamp material

No 7 ... May-27-90
Lamps made. not cut to test mm
Lamps made with 1/2 Formade
Ammonia and 1/2 clamp material

No 8 ... May 27-90
Lamps made 2
Lamps made 1/2 Chrysene + 1/2 Coal Tar
Thin down with Benzol. use air
just enough to spin it

No 9 ... May-27-90
Lamps made 2
Lamps made 1/2 Chrysene and 1/2
Gutta Percha soften in chloroform

No 10 ... May-27-90
Lamps made 2
Lamps made with Gutta Percha
softened with Chloroform and
Lamp Black added

No 11 ... 2 May-27-90
Lamps made
Lamps made with crude Rubber
dissolved in Bisulphide carbon
with Lamp Black added

No 12 . . .
Lamps made 2
Lamps made with Carbolic acid and ½ Clamp material

No 13 . . . May-28-91
Lamps made 5
Lamps made with Parafine and Gasoline put in a small tube on Phosphorus cup

No 14 . . . May-28-90
Lamps made 1
Lamps made with Camphor put in small tube on Phosphorus cup

No 15 . . . May-29-91
Lamps made 1
Lamps made with Parafine mixed with Gasoline and put on clamp

No 16 . . . May 29-90
Lamps made 5
Lamps made with Carbon dissolved in Parafine. No 1/16 carbon all covered twice. No 2 1/2 once. No 3/16 3/4 way No 4/16 1/2 way No 5/16 1/4 way

No 17 . . . May-31-91
Lamps made 3
Lamps made with Camphor on clamps covered with clamp material then covered with Gutta Percha dissolved in Chloroform

No 18 . . . May-31-90
Lamps made 2
Lamps made with clamp material Camphor and Chloroform mixed together with Rubber dissolved in Bisulphide Carbon put on outside

No 19 . . . May-31-90.
Lamps made 3
Lamps made with small tube
put in a tube on end of
Phosphorous cup filled with
Gasoline
No 1st Low current 1st not as low
No 3d Highest current 110 volts

No 20 . . . June-3-90
Lamps made 2
Lamps made with Ballade camphor
1 are on finish the stuff run
up on inside part and made
it are

No 21 . . . June-5-90
Lamps made 1
Lamp made with tube put on
Phosphorous cup with small
tube put inside fill with
Gasoline Lamp exhausted up
to 110 volts then run down to
yellowish white when tube broke
which was filled with Gasoline

No 22 . . . June-5-90
Lamps made 1
Lamp made with Gasoline tube
put in tube on Phosphorous cup
exhausted up to 110 volts. then
Gasoline tube broke when lamp
was burning then current run
down, yellowish white as vacuum
increased. the lamp grew bright

No 23 . . . June-5-90
Lamps made 1
Lamp made with Gasoline tube
put in tube on Phosphorous
cups. Exhausted up to 110 volts
then Gasoline tube broke while
lamp was burning at 110 volts
and as current and vacuum
increased. lamp was run down
and discolored. and carbon broke

No 24 . . . June 6-90

Lamps made 4

Lamps made with Gasoline tube put in tube on Phosphorous cup Exhausted up to 110 volts then plugged in resistance box, plug in at 8th hole from top then Gasoline tube broke and then plug put in No 2 hole and left there untill vacuum increased also as vacuum increased lamps grew brighter and then run off regular

No 25 . . . June 6-90

Lamps made 2 - 1 B. Chem on pump

Lamps made with Gasoline tube put Phosphorous cup. Exhausted up to 110 volts. also lamps heated up with bunsen burner to drive out all the air possible then Gasoline tube broke when lamp was burning at 110 volts, and vacuum increased and lamp grew brighter. the plugs were run down gradually untill 8th hole and left there untill tube was solid.

No 26 . . . June 6-90

Lamps exhausted up to 110 volts then current taken off then Gasoline tube broke. lamps run for 1 or 2 minutes and current put on lamps and then exhausted in regular style

No 27 . . . June 7-90

Lamps made 2

Lamps made with Gasoline tube put in tube on Phosphorous cup. exhausted up to 110 volts then run down to 102 volts and left there untill current went up and volts down to 85 then current taken off and lamps left to run solid

No 28 . . . June 7-90

Lamps treated same as No 27 excepting lamps run down from 102 volts to 90 volts on their own accord

No 29 . . . June - 9 - 90

Lamps made 2

Exhausted up to 200 volts. then lamps run down in current to 102 volts. then tube in tube on Phosphorus cup filled with Gasoline tube. and lamp allowed to run down to 85 volts. Then current thrown off and pumps let run solid and run off regular

No 30 . . . June - 10 - 90

Lamps made 2

Exhausted up to 110 volts. then tube in Phosphorus cup filled with Gasoline tube. lamps run down to 95 volts. then current taken off. let run solid this time there was Phosphorus in cup

No 31 . . . June - 11 - 90

Lamps made 2. with small quantity of Gasoline in tube on Phosphorus cup lamp run off regular up to 200 volts. then run down to 110 volts. then Gasoline tube broke. then lamps did not run down in current but the lamp grew brighter

No 32 . . . June - 11 - 90

Lamps made 4

Lamps made with Gasoline tube put in tube on Phosphorus cup filled up to Stitch lamps exhausted regular up to 200 volts then run down to yellowish white or down to 110 volts and lamps all current and resistance plugs put in at 2d tube on resistance box then Gasoline tube broke and lamps let run solid on pumps

No 33 . . . June - 11 - 90

Lamps made 4

No 33 is the exact duplicate of No 32 run off same on pumps

No 34 . . . June 21 - 90

Lamps made

Old resistance lamp from Lamp Co refused heated in Gasoline same as other orders have been done before

No 35 . . . June - 26 - 90
Lamps from Lamp Co. that are thrown away for bad. refined and treated in Gasoline by putting tube in tube on Phosphorous cups

No. 36 . . . July - 8 - 90
Lamps made 3
Lamps run off same as regular but the did not tear the clamps these lamps are old lamps from the lamp Co treated in Gasoline

No 37 . . . July - 8 - 90
Lamps made 3
No 37 Exhausted same as No 36 excepting the worked off the clamps

By: Emmons Ind Form

Experiments on Treated Carbons

No 1 10. Aug - 7 - 90
Lamps Treated 1
Treated with commercial alcohol the same as with Gasoline but no deposit on Glass or carbon burned on clamps

No 2 10. Aug - 7 - 90
Lamps Treated 2
Treated with Turpentine same as Gasoline. Carbon O.K. but burs on clamps

No 3. 10. Aug - 7 - 90
Lamps Treated 1
Treated with Chloroform deposit on carbon and also on bulb. pumps very dirty and would not run solid

No 4. 10 Aug - 8 - 90
Lamps Treated 1
Treated with oil of Mustard deposit on bulb and no deposit on carbon bulb very black

No 5. 1C Aug - 8 - 90
Lamps Treated 1
Treated with oil Peppermint no deposit on carbon or bulb

No 6 1C Aug - 8 - 90
Lamps Treated 2
Treated with Benzole deposit on carbon and black the bulb from carbon flake in bad spots

No 7 1C Aug - 8 - 90
One lamp treated with aniline no deposit on carbon pump run solid loan aniline in Phosphorus cup

No. 8 1C Aug - 8 - 90
One lamp treated with acetic Acid burned the carbon off when it should be treated. no good

No 9 1C. Aug - 9 - 90
2 Lamps treated with ½ Turpentine and ½ Gasoline. taken off treating pump and put on another pump to get a vacuum would not run solid with pump that it was treated with

No 10 1C. Aug - 9 - 90
1 Lamp treated with Formic Acid deposit on bulb and none on carbon

No 11 1C Aug - 9 - 90
2 Lamps treated with Tolu. bulb up spots on carbon but very little bad in voltage and blue on clamp

No 12 1C Aug 11 - 90
1 Lamp treated with oil aniline deposit on bulb and very little on carbon

No 13 LC Aug-11-90
One Lamp treated with one
Mixture of ½ Turpentine and ½
Gasoline. (No Good)

No 14-LC Aug-11-90
1 Lamp treated with Furfural
Got deposit and Broke carbon (No Good)

No 15-LC Aug-11-90
2 Lamps treated with Methol Alcohol
Good deposit on carbon and also on
bulb (very good result)

No 16-LC Aug-12-90
2 Lamps treated with Tolinol. Deposit
on carbon, also good deposit on bulb
also flux on clamps

No 17-LC Aug 12-90
1 Lamp treated with Acetone no
deposit or build on carbon

No 18 LC Aug-12-90
1 Lamp treated with amyl Nitrate. no
deposit on carbon or no build on
voltage

No 19-LC Aug-12-90
2 Lamps treated with Naphtha. good deposit
on carbon and flux on bulb. clamp flux

No 20-LC Aug-12-90
2 Lamps treated with amil acetate good
deposit on carbon. none on bulb little
flux on one clamp (very good result)

No 21-LC Aug-12-90
1 Lamp treated with oil cryolene no
deposit on carbon. (No Good)

No 22-LC Aug-12-90
3 Lamps treated with ½ Turpentine and
½ Gasoline good deposit on carbon very
little flux on clamp or bulb

No 23-10 Aug-13-90
1 Lamp treated with Turpentine and alchohol. deposit on bulb (No Gmd)

No 24-10 Aug-13-90
1 Lamp treated with alchohol and Rhigolene. deposit on bulb. (No gmd)

No 25-10 Aug-13-90
2 Lamps treated with ½ Turpentine and ½ Rhigolene very good except blue on clamps

No 26-10 Aug-13-90
1 Lamp treated with Naptha and Turpentine. deposit on bulb. (No Good)

No 27-10 Aug-13-90
Two Lamps treated with ½ Amyl-acetate and ½ Gasoline. Good result no blue on clamp and good deposit on carbon. (Best yet)

No 28-10 Aug-14-90
2 Lamps treated with wood alchohol and Turpentine very fine deposit on carbon and none on bulb but blue on clamps. (very good excepting blue

No 29-10 Aug-14-90
2 Lamps treated with wood-alchohol and Gasoline. very fine deposit on carbon and none on bulb (Best result excepting No 27)

No 30-10 Aug-14-90
2 Lamps treated with Acetate and Benzole. deposit on bulb. (No good)

No 31-10 Aug-13-90
1 Lamp treated with Formic acid and Gasoline. black on bulb but good deposit on carbon and blue on clamp

No 32 10 Aug-15-90
1 Lamp treated with Turpentine and Benzole. (Black bulb. No good)

No. 33 10 Aug-15-90
2 Lamps treated with acetate and alcohol. very good on carbon but very long in making. no black on bulb. no blue on clamp.

No 34 10 Aug-16-90
2 Lamps treated with acetate and Turpentine. quite good deposit on carbons but blue on clamps

No 35 10 Aug-18-90
2 Lamps treated with Rosine oil. no deposit on carbon. (No Good)

No 36-10 Aug-18-90
1 Lamp treated with oil Camphor. no deposit on bulb. (No Good)

No 37 10 Aug-18-90
1 Lamp treated with acetone very slow. deposit on carbon and very little build in Amipsed. (No Good)

No 38 10 Aug-18-90
2 Lamps treated with Alcohol & Ether very long in making but good deposit on carbon and not much blue on clamp. (Quite good result)

No 39-10 Aug-20-90
2 Lamps treated with Alcohol and Toluol. good deposit on carbon. bulbs not very black. no blue on clamps (very slow in making)

No 40 10 Aug-25-90
2 Lamps treated with Rosin oil. no deposit on bulb in carbon (No Good)

No 41-16. Aug-25-90
3 Lamps treated with Amylen good and quick deposit on carbon very little fine on clamp and very little black on bulb (Good Result

No 42-16. Aug-26-90
1 Lamp treated with Glycerine no deposit on carbon

No 43-16 Aug-27-90
3 Lamps treated with ½ Amylen and ½ Toluol very quick deposit no fine on clamps. Black bulbs very bad

No 44-16. Aug-27-90
1 Lamp treated with Animal oil very slow deposit on carbon black bulb and very fine on clamp treated with cup attached on the top of Lamp and heat with alcohol lamp

No 45-16 Aug-27-90
1 Lamp treated with venice Turpentine pump would not run solid (No Good)

No 46-16 Aug-28-90
2 Lamps treated with Rhigolene & Amylen very quick and good deposit on carbon bulbs a little discolored and very little fine on clamps but hard to get a vacuum after treating

No 47-16. Aug-28-90
2 Lamps treated with Turpentine and Amylen about same result as No 46

No 48-16. Aug-28-90
1 Lamp treated with Chloral & 1 H4 drop Pump would not run solid. to much moisture. (No Good)

No 49-16. Aug-29-90
2 Lamps treated with ½ acetate and ½ amylen. Good and quick deposit on carbon. no flue on clamps. and very little flash on bulb

No 50-16 Aug-29-90
2 Lamps treated with ½ amylen and ½ Lactolene. flue on clamps good deposit on carbon. and not very much flash on bulb

No 51-16 Aug-29-90
2 Lamps treated with alcohol and amylen. very quick build on carbon no flash on bulb and no flue on clamps. (very good result)

No 52-16 Sept-2-90
Lamps made 10
Duplicate of No 2-16.

No 53-16 Sept-9-90
1 Lamp treated with alcohol and chloroform. very slow deposit on carbon. and flash bulb (No Good)

No 54-16. Sept-9-90
2 Lamps treated with chloroform and Turpentine. very little deposit on carbon. and flash bulb

No 55-16 Sept-9-90
Lamps made 10
Duplicate of No 28-16

No 56-16 Sept-9-90
2 Lamps treated Turpentine and Acetone. no deposit on carbon

No 57-16 Sept-9-90
2 Lamps treated with alcohol & Methylene very quick build on carbon. no flash on bulb. but flue on clamps

No 58-1C Sept-9-90
2 Lamps treated first with oil of Citronella alone, no deposit on Carbon then mixed with ½ Gasolene and got quite good result, good deposit on carbon but flue on clamp and little black on bulb.

No 59-1C Sept-9-90
2 Lamps treated first with Creosote, no deposit so mixed with Naptha quite good deposit on carbon, flue on clamp.

No 60-1C Sept-10-90
2 Lamps treated with Cajeput alone (No good) mixed with Naptha quite good deposit on carbon, flue on clamp.

No 61-1C Sept-10-90
2 Lamps treated with Thyme alone very slow deposit and flue on clamp little black on bulbs

No 62-1C Sept-10-90
2 Lamps treated with ½ Acetone and ½ Alcohol quite good deposit on carbon, flue on clamps and discoloured bulbs.

No 63-1C Sept-10-90
2 Lamps treated with oil of Cardamon and Nitrate slow deposit on carbon black bulbs and broke carbons before run to lamps.

No 64-1C Sept-10-90
2 Lamps treated with oil of Cassia and Amyden very quick deposit on carbon and no black on bulbs, flue clamps

No 65-1C Sept-12-90
4 Lamps treated with ½ Amyden ½ oil of Camphor very quick deposit on carbon, no black on bulbs, flue clamps (as good as any we have treated on pump.

No 66-A. Sept-13-90
2 Lamps treated with oil of Mustard and Benzole good deposit on carbon but black bulb and fine clamp

No 67-A Sept-15-90
2 Lamps treated with amylen and Naptha good deposit on carbon. fine clamp no black on bulbs

No-68-A Sept-15-90
2 Lamps treated with oil of Caraway and wood alcohol very slow in depositing. fine clamp, but no black on bulb

No 69-A
Sept-15-90
2 Lamps Treated with Amylen and No Ether very little black on bulb very little fine on clamp but very slow in depositing

No 70-A Sept-19-90
3 Lamps treated with Benzole and amylen good deposit on carbon but bulbs very black

No 71 A. Sept-20-90
2 Lamps treated with acid Butyric (no good) broke carbons in spots

No 72 A. Sept-20-90
2 Lamps treated with acid Butyric and amylen broke carbons same as no 71

No-73-A Sept-20-90
3 Lamps treated Rosin oil and amylen good deposit on carbon very little fine on clamp no black on bulb

No 74-A Sept-22-90
2 Lamps treated with Furfurol broke carbons no deposit. No Good

No 75-U Sept 22-90
2 Lamps treated with amyl-acetate
treat carbon (no good)

No 76-U Sept-22-90
2 Lamps treated with oil of
Peppermint and amylene very slow
deposit on carbon. no black on
bulb, but bits on clamp

No 77-U Sept-22-90
2 Lamps treated with acetic aldehyde
very slow deposit on carbon. blue
clamps little black on bulb

No 78-U Sept-22-90
1 Lamp treated six minutes with
Cummins built only 1/10th part
of amp

No 79-U Sept-22-90
2 Lamps treated with amyl-Nitrate
and acetic acid aldehyde. good
deposit on carbon. blue clamps
no black on bulb

No 80-U Sept-22-90
1 Lamp treated with compressure
bulb very black and slow deposit
on carbon

No 81-U Sept-23-90
2 Lamps treated 1/2 Cummins and 1/2 Gasoline
good deposit on carbon. blue clamps
bulb little discolored

No 82-U Sept-23-90
2 Lamps treated with amylamine very
good and quick deposit on carbon
no black on bulb, but blue on clamps

No 83-10 Sept-23-90
2 Lamps treated with Ether Vaporous
quite good deposit on carbons no black
on bulb. blue clamp and lamps
would not run solid after treating

No 84-10 Sept-23-90
2 Lamps treated with Anisol. quite
quick to build. no black on bulbs
but a little blue on clamps

No 85-10 Sept-24-90
2 Lamps treated with Alcohol allylic
Good deposit on carbon. no black on
bulbs. but blue clamp

No 86-10 Sept 24-90
2 Lamps treated with Alcohol Amylic
very slow deposit on carbons no
black on bulbs but blue clamp

No 87-10 Sept-24-90
1 Lamp treated with Propylic Cumid
slow deposit on carbon. bulb very
black and blue clamp.

No 88-10 Sept-24-90
3 Lamps treated with Anisol and
Gasoline very good and quick
deposit on carbons no black on
bulbs. but little blue on clamps

No 89-10 Sept-24-90
2 Lamps treated with Alcohol allylic
and anisol. very slow deposit on
carbons and hard to run to vacuum
after treating. blue clamps

No 90-10 Sept-24-90
1 Lamp treated with Methol Formic
9 hours in treating. blue clamps

No 91-10 Sept-25-90
2 Lamps treated with Methol Cyanid
slow deposit. black bulb and blue clamp

No 92-10 Sept-26-90
1 Lamp treated with acid Camphronic
No build on carbon

No 93-10 Sept-26-90
3 Lamps treated with acid Camphronic
and anisol. black bulb. blue clamp
and very slow deposit on carbon

No 94-10 Sept-27-90
1 Lamp treated with anisol and amylen
slow to build. blue clamp and
black bulb

No 95-10 Sept-27-90
1 Lamp treated with Amylen (Duplicate
of No 41) only treated with Phorous
in cup

No 96-10 Sept-28-90
10 Lamps treated with amylen
(Duplicate of 41) treated without
Phorous in cup.

No 97-10 Sept-29-90
1 Lamp treated with Methol Cyanid and
anisol, very slow deposit on carbon
and blackened the bulb very bad

No 98-10 Oct-9-90
10 Lamps. (Duplicate of No 87